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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/603,297	06/23/2003	Jacob Stoltze	S63.2-11064-US01	3241
⁴⁹⁰ VIDAS, ARRE	VIDAS, ARRETT & STEINKRAUS, P.A. 6109 BLUE CIRCLE DRIVE SUITE 2000		EXAMINER	
6109 BLUE CI	03,297 06/23/2003 7590 06/01/2007 DAS, ARRETT & STEINKRAUS, P.A. 09 BLUE CIRCLE DRIVE		EREZO, DARWIN P	
SUITE 2000 MINNETONK A MN 55343-9185			ART UNIT	PAPER NUMBER
	NKA, MN 55343-9185		3731	
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			06/01/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/603,297	STOLTZE ET AL.
Office Action Summary	Examiner	Art Unit
•	Darwin P. Erezo	3731
The MAILING DATE of this communication		
Period for Reply A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by si Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re h. briod will apply and will expire SIX (6) MONT tatute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 1 This action is FINAL. Since this application is in condition for allocation accordance with the practice und 	This action is non-final. wance except for formal matte	
Disposition of Claims		
4) ⊠ Claim(s) 1-3,5-17 and 19-27 is/are pending 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3,5-17 and 19-27 is/are rejected 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction are	drawn from consideration.	
Application Papers		
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the con 11) The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyand rrection is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Ap priority documents have been r reau (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment(s)	_	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 	Paper No(s)	ummary (PTO-413) /Mail Date formal Patent Application (PTO-152)

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species I in the reply filed on 3/12/07 is acknowledged. The traversal is on the ground(s) that the search for Species II would not produce an undue burden. This is found persuasive as the applicant did not traverse the rejection for claims 12 and 25 on the Remarks filed on 11/15/2006. That is, the applicant provided arguments for claim 1 but not specifically for the common knowledge/design choice rejection for claims 12 and 25. Therefore, since the applicant failed to traverse this rejection, the common knowledge/design choice statement is taken to be admitted prior art. See MPEP 2144.03(C). As such, the search for species II would not produce undue burden.

The restriction requirement is thereby withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-3, 6-11, 14, 16, 17 and 20-24 are rejected under 35 U.S.C. 102(e) as being anticipated by US 5,201,706 to Noguchi et al.

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Noguchi teaches a dilation balloon catheter comprising fibers 12 in a matrix material 10, said fibers embedded in the matrix material of the balloon. The fibers are viewed as being "embedded" because one of the common definitions for "embedded" is:
--to surround closely-- (www.m-w.com). As seen in Fig. 3, the fiber layer 12 is surrounded closely by the elastic layer 10. Noguchi also discloses the fibers 12 as reinforcement fibers for controlling expansion of the balloons; wherein the fibers are braided or wound in a cylindrical shape (col. 3, lines 55-58); wherein the fibers are made of a polyethylene fibers (col. 4, line 2), which are thermoplastic and non-elastomeric; wherein the matrix is an elastomeric material comprising polyurethane (col. 3, line 42); wherein the catheter comprises a first end and a second end, wherein the first end comprises the inflatable balloon, wherein a lumen extends form the inflatable balloon to the second end (seen in Fig. 5).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

6. Claims 5 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noguchi et al. and in view of UK 1,566,674 to Hanecka et al.

Noguchi teaches a fabric fiber body but is silent with regards to the orientation of the fabric body having a helical pattern. However, Hanecka teaches a similar reinforced balloon catheter having a fabric body formed with a helical pattern (page 2, line 117). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the fabric fiber body of Noguchi to include a helical pattern because it would allow the inflatable balloon to expand to a predetermined size that is determined or controlled by said helical pattern.

7. Claims 12 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noguchi et al.

Noguchi is silent with regards to a non-elastic layer 10,12 and an elastic body 12. However, Noguchi teaches the recited polymers in the claims, which are capable of having the same characteristics recited in the claims. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the layers 10,12 to be non-elastic and the fiber body to be elastic since Noguchi teaches identical materials that are capable of having the same characteristics. It would also be a mere design choice to make the layers 10, 12 be non-elastic and the fiber body be elastic since the Applicant has not disclosed that having non-elastic layers 10, 12 or an elastic body 12 solves any stated problems or is for any particular purpose and

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it appears that the invention would perform equally well with the reversal of parts taught by Noguchi.

8. Claims 13, 15, 26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noguchi et al. and in view of US 5,100,429 to Sinofsky.

Noguchi teaches an inflatable balloon catheter that is capable of expanding a stent but is silent with regards to the combination of the catheter and the stent.

However, Sinofsky teaches a stent 112 releasably attached or mounted by a bond (col. 9, lines 51-53) to an inflatable portion of a catheter 120, wherein the stent is capable of retaining a deployed configuration. Therefore, it would have been obvious to one of ordinary skill in the art to use a stent with the inflatable balloon of Noguchi because the reinforced inflatable balloon of Noguchi would allow the use of high-pressure within the balloon to fully inflate the balloon without rupturing said balloon.

Response to Arguments

- 9. The applicant's amendment to the specification to include the essential material disclosed in the foreign patent, which was incorporated by reference, has obviated the USC 112 1st paragraph rejection.
- 10. Applicant's arguments filed 11/15/06 have been fully considered but they are not persuasive.

The applicant argued that the Noguchi reference fails to disclose fibers that are embedded in the matrix material of the balloon. However, this is not persuasive as the common definition for "embedded" is: --to surround closely-- (www.m-w.com). As seen in Fig. 3 of Noguchi, the fibers surround the matrix closely.

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Conclusion

11. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Darwin P. Erezo whose telephone number is (571) 272-4695. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jackie Ho can be reached on (571) 272-4696. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Darwin P. Erezo Examiner Art Unit 3731

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(JACKIE) TAN-UYEN HO PRIMARY EXAMINER

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